SERVICE MANUAL

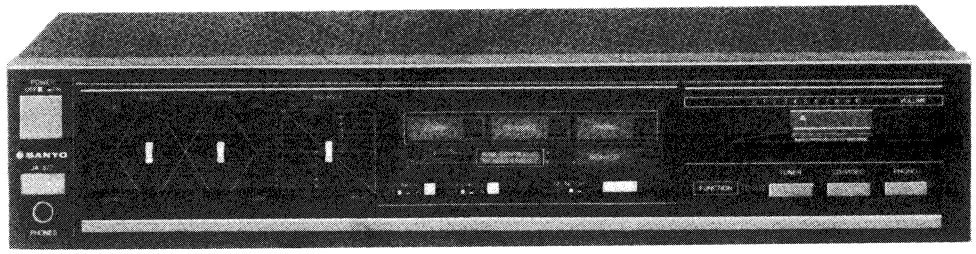
POWER AMPLIFIER

SANYO

JA 477 BLACK

(EUROPE)

AH10



SPECIFICATIONS

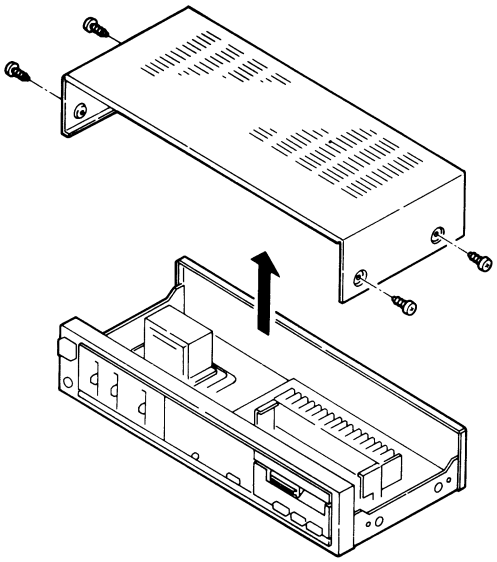
The below mentioned specifications are mainly based on the IHF measurements standard. They can therefore not directly be compared with specifications based on the DIN standard or other standards.

Continuous output power	35 W x 2 (at 8 ohms, 0.9% distortion)
Input sensitivity and impedance	
PHONO	2.5 mV/47 kohms
CD/VIDEO	150 mV/47 kohms
Frequency response	20 Hz – 20 kHz (CD/VIDEO)
Tone control response	
BASS	±8 dB (at 100 Hz)
TREBLE	±8 dB (at 10 kHz)
Signal to noise ratio	95 dB (CD/VIDEO)
Power requirements	AC: 220 V, 50 Hz
Power consumption	190 W
Dimensions (W x D x H)	Approx. 420 x 200 x 85 mm (16-1/2" x 7-7/8" x 3-3/8")
Weight	Approx. 4 kg (9 lbs.)

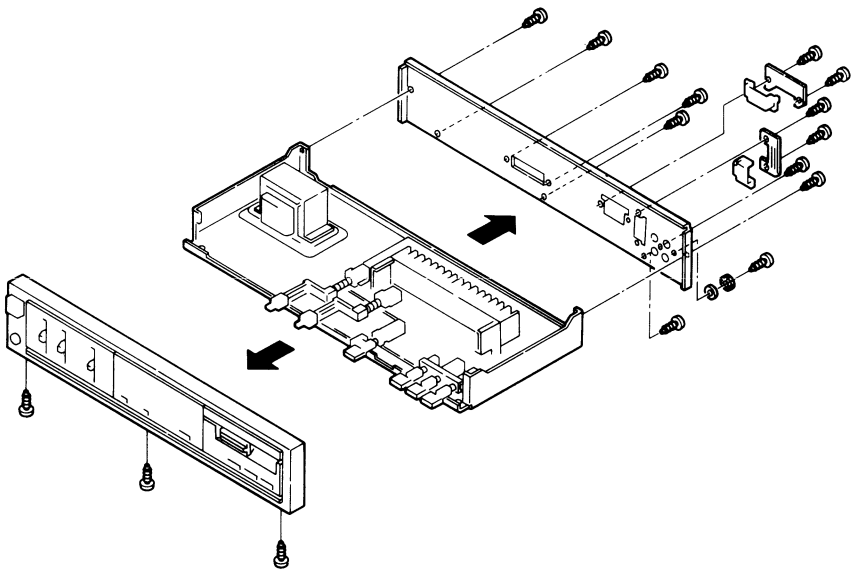
–Specifications subject to change without notice.

DISASSEMBLY

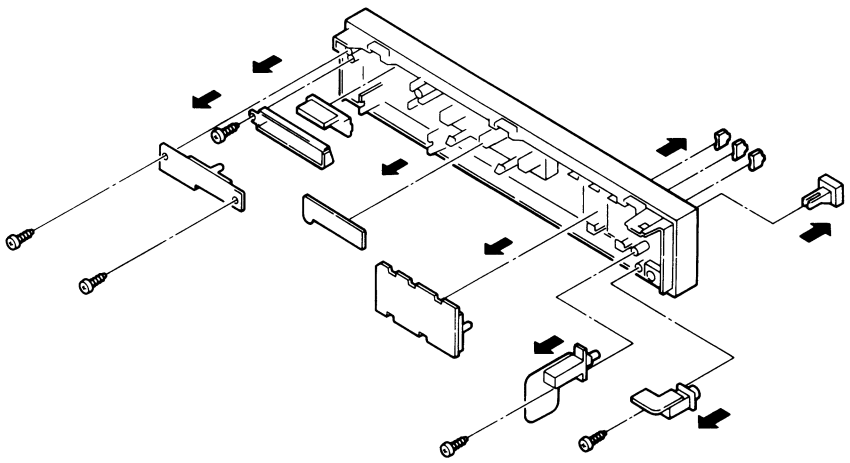
Cabinet Disassembly



Front Panel and Back Lid Disassembly

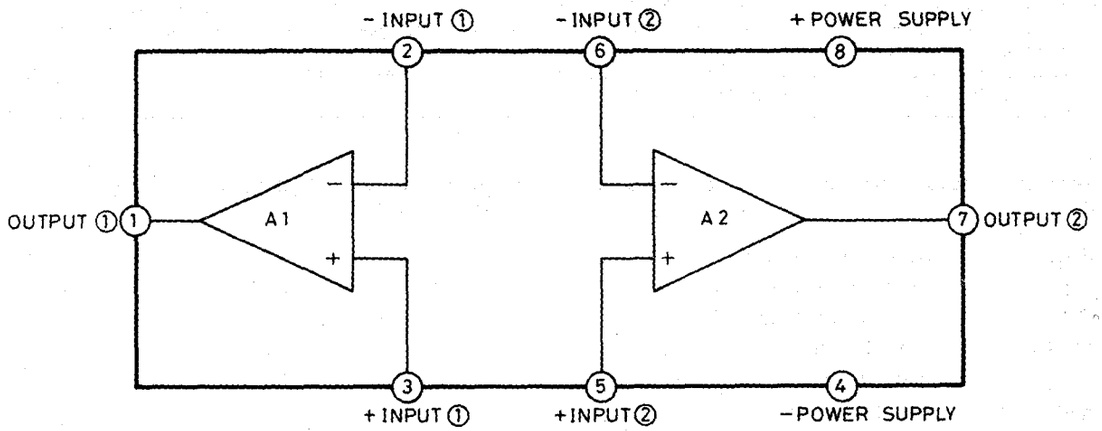


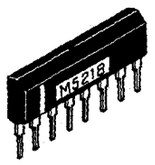
PCB Disassembly



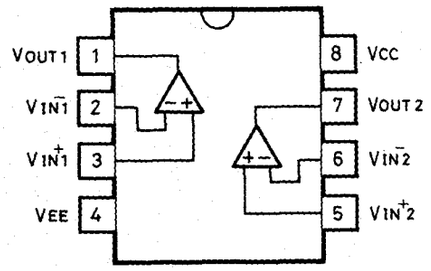
CK DIAGRAMS

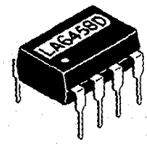
1 M5218P





IC701 LA6458DS





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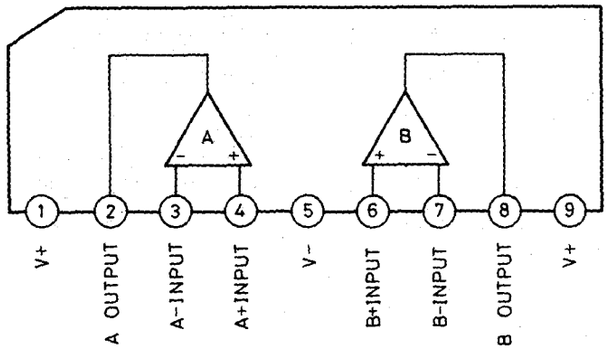
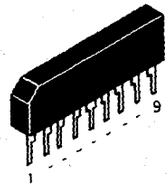




PARTS LIST

PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol ⚠ in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with ⚠, use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual.
Leakage current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

NOTE:

* Materials of Capacitors and Resistors are abbreviated as follows;

AL ELECT .....Aluminum Electrolytic
BC CON .....Semiconductor Ceramic
CHIP BC .....Chip Semiconductor Ceramic
CHIP TAN .....Chip Tantal
ELECT .....Electrolytic
PP CON .....Polypropylene
MT GLAZE .....Metal Glaze
FP CARBON .....Flameproof Carbon

* Tolerance of Capacitors and Resistors are noted with follow symboles;

J .....±5%
K .....±10%
M .....±20%
N .....±30%
P .....+100−0%
Q .....+30−10%
Z .....+80−20%

PACKING & ACCESSORIES

Ref. No.	Part No.	Description
	141-6-409T-37601	INST MANUAL
	141-6-133T-71104	INNER CORR CASE
	141-6-144T-93000	FOAM PLASTIC CASE
	141-6-235T-35601	INNER POLYE LAMINA COVER, 350X600
	141-6-235T-35605	INNER POLYE LAMINA COVER
	141-6-415T-32300	NOTICE, NEW FTZ

CABINET & CHASSIS

Ref. No.	Part No.	Description
1	141-0-122T-61506	FRONT PANEL ASSY
2	141-2-111T-58274	CABINET
3	141-2-156T-37900	CUP KNOB, POWER SWITCH
4	141-2-160T-60500	PUSH BUTTON, POWER SWITCH
5	141-2-164T-40900	SLIDE KNOB, BAL/BASS/TREBLE
6	141-2-160T-60800	PUSH BUTTON, SPKR/LOUDNESS
7	141-2-160T-60430	PUSH BUTTON, TAPE MONITOR
8	141-2-160T-60300	PUSH BUTTON, FUNCTION
9	141-2-164T-40700	SLIDE KNOB, VOLUME
10	141-2-448T-16700	CUSHION, MAIN VOLUME
11	141-2-290T-12501	BRACKET, VOLUME
12	141-2-453T-30602	WASHER, GRAPHITE NYLON, JOINT
13	141-2-253T-16100	JOINT, SPKR/LOUDNESS
14	141-2-310T-68401	BRACKET, HEAT SINK, RIGHT
15	141-2-310T-68501	BRACKET, HEAT SINK, LEFT
16	141-2-126T-58300	BACK LID
17	141-2-464T-14400	FIXER, AC POWER CORD
18	141-2-210T-71200	BRACKET, SOCKET W/LEAD, LARGE
19	141-2-210T-71300	BRACKET, SOCKET W/LEAD, SMALL
20	141-2-421T-28800	SPECIAL SCREW, GND
21	123-2-472R-00401	LUG, FTZ
22	141-0-125T-31909	BOTTOM LID ASSY
Y1	BJBYS++3+8+Z1	BIND HD SCREW 3X8
Y2	BJB2S++3+8+Z1	BIND HD 2 TAPPING SCREW 3X8
Y3	BJX6S++3+8+Z1	PAN WASHER HD 2 TAPPING SCREW 3X8
Y4	BJESS++4+8+Z1	BIND HD S TITE SCREW 4X8
Y5	141-2-421T-43931	SPECIAL SCREW
Y6	WJBWS++3J05N1	WASHER 3X10X0.5T
Y7	WJHGK++3K0CZ1	OUTER TOOTHED LOCK WASHER 3X6.5X0.45T
Y8	BJB2S++310+Z1	BIND HD 2 TAPPING SCREW 3X10
Y9	BJB2S++3+8+ZK	BIND HD 2 TAPPING SCREW 3X8
Y10	BJESS++3+8+Z1	BIND HD S TITE SCREW 3X8
Y11	BJB2S++3+6+Z1	BIND HD 2 TAPPING SCREW 3X6

ELECTRICAL PARTS

Ref. No.	Part No.	Description
59	4-285T-87700	P.C BOARD, P.T. PRIMARY
60	⚠ 4-320T-15800	POWER TRANSFORMER
61	⚠ 4-243T-84973	AC POWER CORD
62	141-2-368T-26204	HEAT SINK
63	141-2-243T-09800	BASE
64	141-2-327T-26100	INSULATOR
65	⚠ 4-234T-10589	FUSE, T2.5A, 250V (F701/F801)
66	⚠ 4-234T-10585	FUSE, T1.25A 250V (F901)
CN1	4-240T-83573	SOCKET, 3P
CN2	4-240T-83573	SOCKET, 3P
CN3	4-240T-83573	SOCKET, 3P
CN4	4-240T-83572	SOCKET, 2P
CN5	4-240T-83572	SOCKET, 2P
CN6	4-240T-83572	SOCKET, 2P
CN7	4-240T-83572	SOCKET, 2P
CN8	4-240T-83572	SOCKET, 2P
CN9	4-240T-83572	SOCKET, 2P
CN10	4-240T-83572	SOCKET, 2P
CN11	4-240T-83575	SOCKET, 5P
CN12	4-240T-83575	SOCKET, 5P
CN13	4-240T-83575	SOCKET, 5P
CN14	4-240T-83575	SOCKET, 5P
CN15	4-240T-83577	SOCKET, 7P
CN16	4-240T-83577	SOCKET, 7P
CN17	4-240T-83578	SOCKET, 8P
CN18	4-240T-47673	SOCKET, 3P
CN19	4-240T-47673	SOCKET, 3P
CN20	4-240T-47673	SOCKET, 3P
CN21	4-240T-47673	SOCKET, 3P
CN22	4-240T-83579	SOCKET, 9P

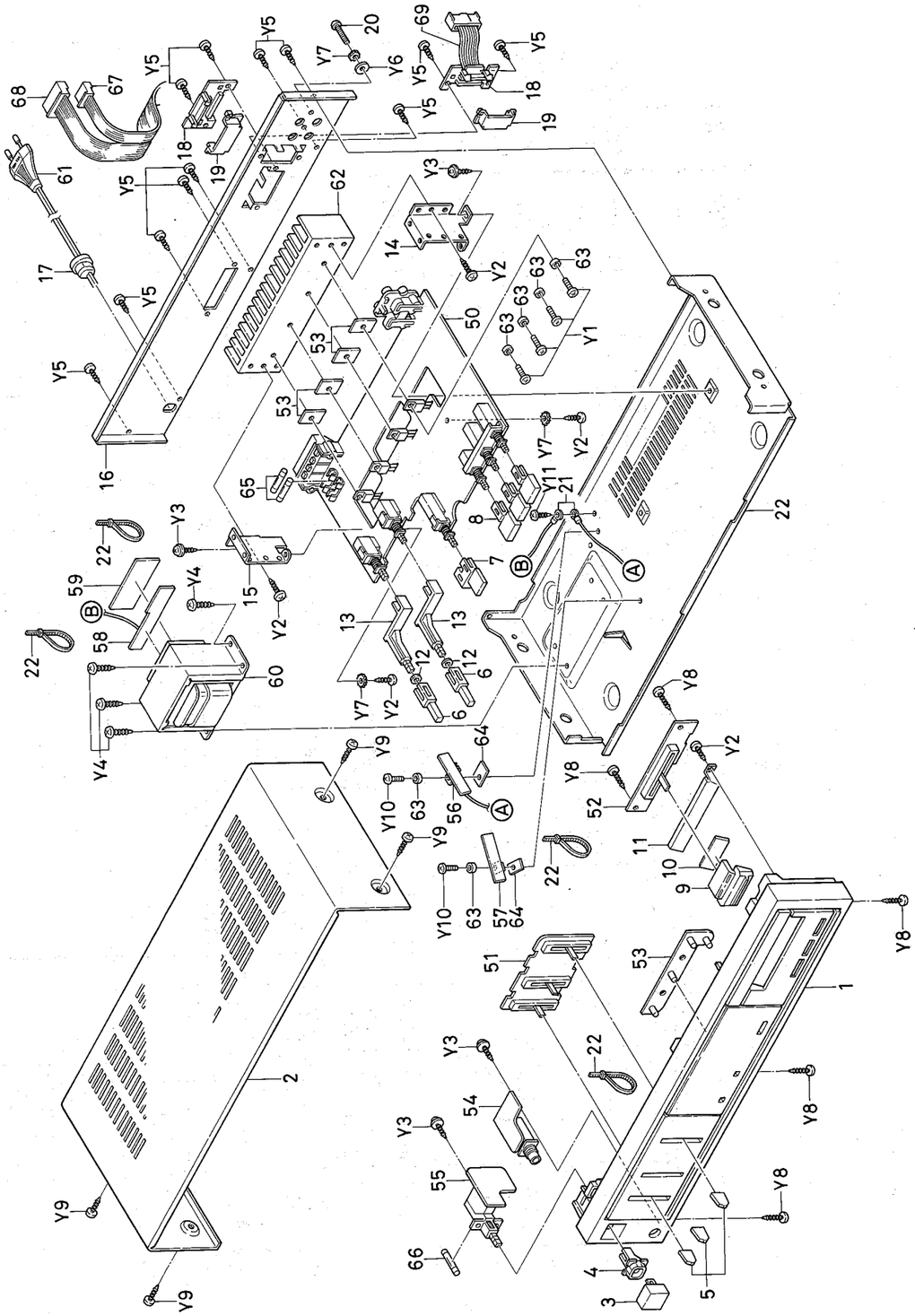
PARTS LIST

MAIN AMP PCB ASSY

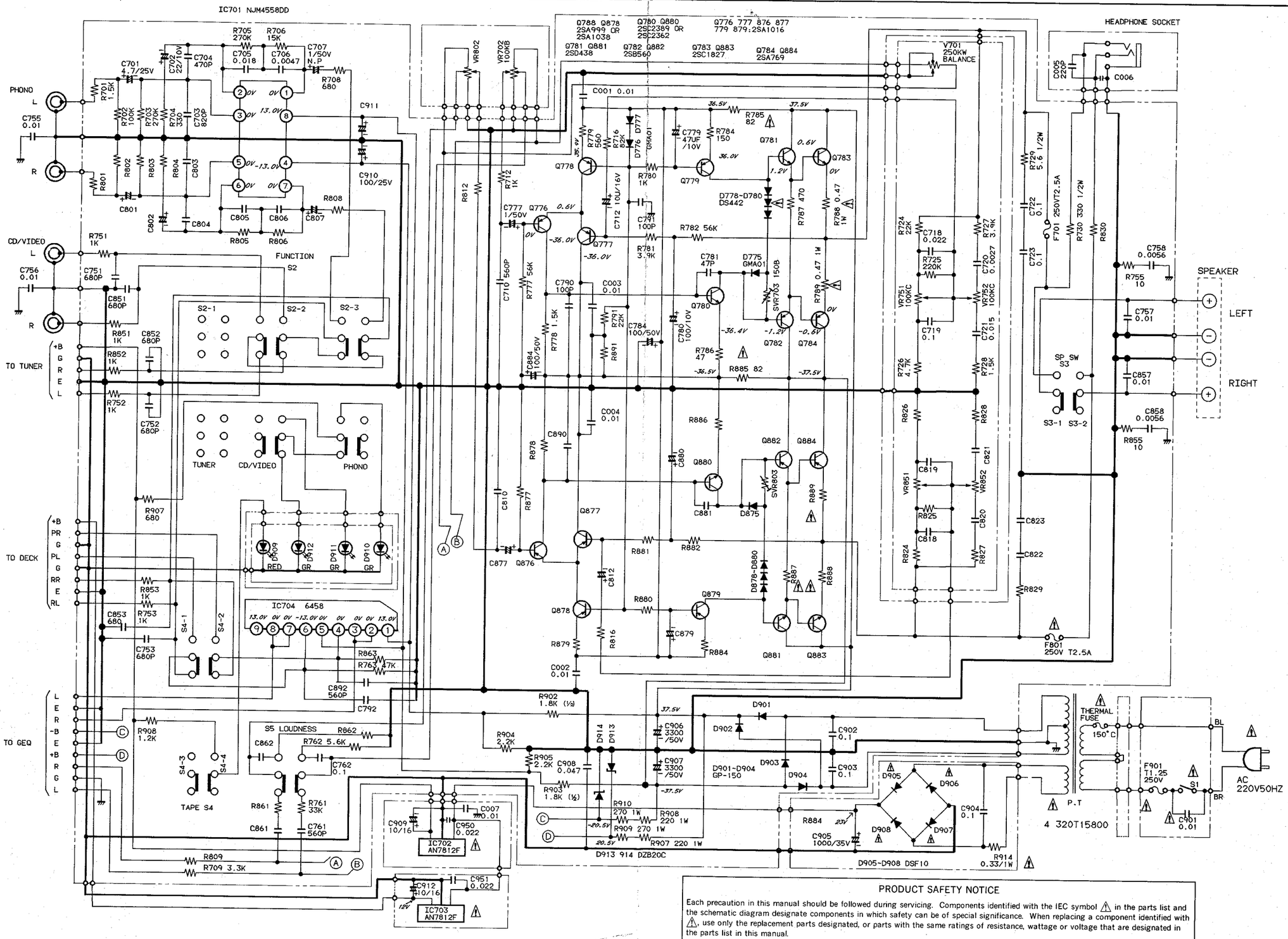
Ref. No.	Part No.	Description
50	141-4-285T-86800	P.C BOARD ASSY, MAIN AMP
57	4-267T-02674	SOCKET W/LEAD, TUNER
58	4-267T-02771	SOCKET W/LEAD, DECK
59	4-267T-09400	SOCKET W/LEAD, EQUALIZER
	4-240T-50471	SOCKET, PHONO/CD/VIDEO
	4-237T-09993	TERMINAL, BOARD
	141-2-381T-04202	BRACKET, FUSE
S2	4-248T-09600	SWITCH, FUNCTION
S3	4-238T-82471	SWITCH, SPEAKER
S4	4-248T-02300	SWITCH, MONITOR
S5	4-238T-82400	SWITCH, LOUDNESS
SVR703	4-222T-73595	SEMI-FIXED RESISTOR, 150B
SVR803	4-222T-73595	SEMI-FIXED RESISTOR, 150B
IC701	SILA6458DS+++	IC LA6458DS DIP08
or	SIM5218PR++++	IC M5218P R DIP08
IC704	SILA6458S++++	IC LA6458S SIP9
Q776	STA1038S+++++	TR 2SA1038 S
Q777	STA1038S+++++	TR 2SA1038 S
Q778	STA999+F+++++	TR 2SA999 F
Q779	STA1038S+++++	TR 2SA1038 S
Q780	STC2362G+++++	TR 2SC2362 G
or	STC2389S+++++	TR 2SC2389 S
Q781	STD438+F+++++	TR 2SD438 F
Q782	STB560+F+++++	TR 2SB560 F
Q783	STC1827Y+++++	TR 2SC1827 Y
Q784	STA769+Y+++++	TR 2SA769 Y
Q876	STA1038S+++++	TR 2SA1038 S
Q877	STA1038S+++++	TR 2SA1038 S
Q878	STA999+F+++++	TR 2SA999 F
Q879	STA1038S+++++	TR 2SA1038 S
Q880	STC2362G+++++	TR 2SC2362 G
or	STC2389S+++++	TR 2SC2389 S
Q881	STD438+F+++++	TR 2SD438 F
Q882	STB560+F+++++	TR 2SB560 F
Q883	STC1827Y+++++	TR 2SC1827 Y
Q884	STA769+Y+++++	TR 2SA769 Y
D775	SDGMA01+++++T	DIODE GMA01
or	STA1038S+++++	TR 2SA1038 S
D776	SDGMA01+++++T	DIODE GMA01
D777	SDGMA01+++++T	DIODE GMA01
D778	⚠ SDDS442+X+++T	DIODE DS442 X
D779	⚠ SDDS442+X+++T	DIODE DS442 X
D780	⚠ SDDS442+X+++T	DIODE DS442 X
D875	SDGMA01+++++T	DIODE GMA01
D878	⚠ SDDS442+X+++T	DIODE DS442 X
or	⚠ STA1038S+++++	TR 2SA1038 S
D879	⚠ SDDS442+X+++T	DIODE DS442 X
D880	SDDS442+X+++T	DIODE DS442 X
D901	SDGP15+LD++++	DIODE GP15 D L FORMING
D902	SDGP15+LD++++	DIODE GP15 D L FORMING
D903	SDGP15+LD++++	DIODE GP15 D L FORMING
D904	SDGP15+LD++++	DIODE GP15 D L FORMING
D913	SDDZB200C++++	ZENER DIODE DZB20C
D914	SDDZB200C++++	ZENER DIODE DZB20C
C1	CC+50103ZRZFF	CERAMIC 0.01MF 50V Z R ZF
C2	CC+50103ZD++S	CERAMIC 0.01MF 50V Z D
C3	CC+50103ZRZFF	CERAMIC 0.01MF 50V Z R ZF
C4	CC+50103ZD++S	CERAMIC 0.01MF 50V Z D
C701	CE+25475MR++F	ELECT 4.7MF 25V M R
C702	CE+10226MR++F	ELECT 22MF 10V M R
C703	CC+50221KRSLF	CERAMIC 220PF 50V K R SL
C704	CC+50821KRYBF	CERAMIC 820PF 50V K R YB
C705	CB+25183KRXRF	BC CON 0.018MF 25V K R XR
C706	CB+25472KRXRF	BC CON 0.0047MF 25V K R XR
C707	CW+50105QVNPS	NONPOLAR 1MF 50V Q V NP
C710	CC+50561KRYBF	CERAMIC 560PF 50V K R YB
C712	CE+16106MR++F	ELECT 10MF 16V M R
C722	CM+50104MR++F	MYLAR 0.1MF 50V M R
C723	CM+50104MR++F	MYLAR 0.1MF 50V M R
C751	CC+50681KRYBF	CERAMIC 680PF 50V K R YB
C752	CC+50681KRYBF	CERAMIC 680PF 50V K R YB
C753	CC+50681KRYBF	CERAMIC 680PF 50V K R YB
C755	CC+50103ZRZFF	CERAMIC 0.01MF 50V Z R ZF

Ref. No.	Part No.	Description
C756	CC+50103ZRZFF	CERAMIC 0.01MF 50V Z R ZF
C757	CM+50103MR++F	MYLAR 0.01MF 50V M R
C758	CM+50562MR++F	MYLAR 0.0056MF 50V M R
C760	CC+50681KRYBF	CERAMIC 680PF 50V K R YB
C761	CC+50561KRSLF	CERAMIC 560PF 50V K R SL
C762	CM+50104MR++F	MYLAR 0.1MF 50V M R
C777	CE+50105MR++F	ELECT 1MF 50V M R
C779	CE+10476MR++F	ELECT 47MF 10V M R
C780	CE+10107MR++F	ELECT 100MF 10V M R
C781	CC+50470KRSLF	CERAMIC 47PF 50V K R SL
C784	CE+50107MY++S	ELECT 100MF 50V M Y
C790	CC+50101KRYBF	CERAMIC 100PF 50V K R YB
C791	CC+50101KRYBF	CERAMIC 100PF 50V K R YB
C792	CC+50561KRYBF	CERAMIC 560PF 50V K R YB
C801	CE+25475MR++F	ELECT 4.7MF 25V M R
C802	CE+10226MR++F	ELECT 22MF 10V M R
C803	CC+50221KRSLF	CERAMIC 220PF 50V K R SL
C804	CC+50821KRYBF	CERAMIC 820PF 50V K R YB
C805	CB+25183KRXRF	BC CON 0.018MF 25V K R XR
C806	CB+25472KRXRF	BC CON 0.0047MF 25V K R XR
C807	CW+50105QVNPS	NONPOLAR 1MF 50V Q V NP
C810	CC+50561KRYBF	CERAMIC 560PF 50V K R YB
C812	CE+16106MR++F	ELECT 10MF 16V M R
C822	CM+50104MR++F	MYLAR 0.1MF 50V M R
C823	CM+50104MR++F	MYLAR 0.1MF 50V M R
C851	CC+50681KRYBF	CERAMIC 680PF 50V K R YB
C852	CC+50681KRYBF	CERAMIC 680PF 50V K R YB
C853	CC+50681KRYBF	CERAMIC 680PF 50V K R YB
C857	CM+50103MR++F	MYLAR 0.01MF 50V M R
C858	CM+50562MR++F	MYLAR 0.0056MF 50V M R
C860	CC+50681KRYBF	CERAMIC 680PF 50V K R YB
C861	CC+50561KRSLF	CERAMIC 560PF 50V K R SL
C862	CM+50104MR++F	MYLAR 0.1MF 50V M R
C877	CE+50105MR++F	ELECT 1MF 50V M R
C879	CE+10476MR++F	ELECT 47MF 10V M R
C880	CE+10107MR++F	ELECT 100MF 10V M R
C881	CC+50470KRSLF	CERAMIC 47PF 50V K R SL
C884	CE+50107MY++S	ELECT 100MF 50V M Y
C890	CC+50101KRYBF	CERAMIC 100PF 50V K R YB
C892	CC+50561KRYBF	CERAMIC 560PF 50V K R YB
C902	CM+50104MR++F	MYLAR 0.1MF 50V M R
C903	CM+50104MR++F	MYLAR 0.1MF 50V M R
C906	CE+50338MVHAS	ELECT 3300MF 50V M V HA S
C907	CE+50338MVHAS	ELECT 3300MF 50V M V HA S
C908	CC+50473ZRZFF	CERAMIC 0.047MF 50V Z R ZF
C910	CE+25107MR++F	ELECT 100MF 25V M R
C911	CE+25107MR++F	ELECT 100MF 25V M R
R701	RC/+4152JT++R	CARBON T 1.5KOHM J1/4WR25
R702	RC/+4104JT++R	CARBON T 100KOHM J1/4WR25
R703	RC/+4274JT++R	CARBON T 270KOHM J1/4WR25
R704	RC/+4331JT++R	CARBON T 330 OHM J1/4WR25
R705	RC/+4274JT++R	CARBON T 270KOHM J1/4WR25
R706	RC/+4153JT++R	CARBON T 15K OHM J1/4WR25
R708	RC/+4681JT++R	CARBON T 680 OHM J1/4WR25
R709	RC/+6332JT+++	CARBON T 3.3K OHM J 1/6W
R712	RC/+6102JT+++	CARBON T 1K OHM J 1/6W
R716	RC/+6823JT+++	CARBON T 82K OHM J 1/6W
R717	RC/+4392JT++R	CARBON T 3.9KOHM J1/4WR25
R729	RF/+25R6JSFP+	FP-CARBON S 5.6 J 1/2W
R730	RF/+2331JSFP+	FP-CARBON S 330 J 1/2W
R751	RC/+6102JT+++	CARBON T 1K OHM J 1/6W
R752	RC/+6102JT+++	CARBON T 1K OHM J 1/6W
R753	RC/+6102JT+++	CARBON T 1K OHM J 1/6W
R755	RC/+4100JT++R	CARBON T 10 OHM J1/4WR25
R760	RC/+6102JT+++	CARBON T 1K OHM J 1/6W
or	RC/+6333JT+++	CARBON T 33K OHM J 1/6W
R761	RC/+6562JT+++	CARBON T 5.6K OHM J 1/6W
R763	RC/+6473JT+++	CARBON T 47K OHM J 1/6W
R777	RC/+6563JT+++	CARBON T 56K OHM J 1/6W
R778	RC/+6152JT+++	CARBON T 1.5K OHM J 1/6W
R779	RC/+6561JT+++	CARBON T 560 OHM J 1/6W
R780	RC/+6102JT+++	CARBON T 1K OHM J 1/6W
R782	RC/+4563JT++R	CARBON T 56K OHM J1/4WR25
R784	RC/+6151JT+++	CARBON T 150 OHM J 1/6W

CABINET & CHASSIS EXPLODED VIEW



SCHEMATIC DIAGRAM



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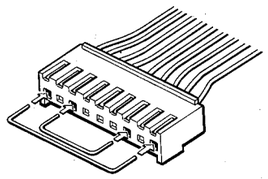
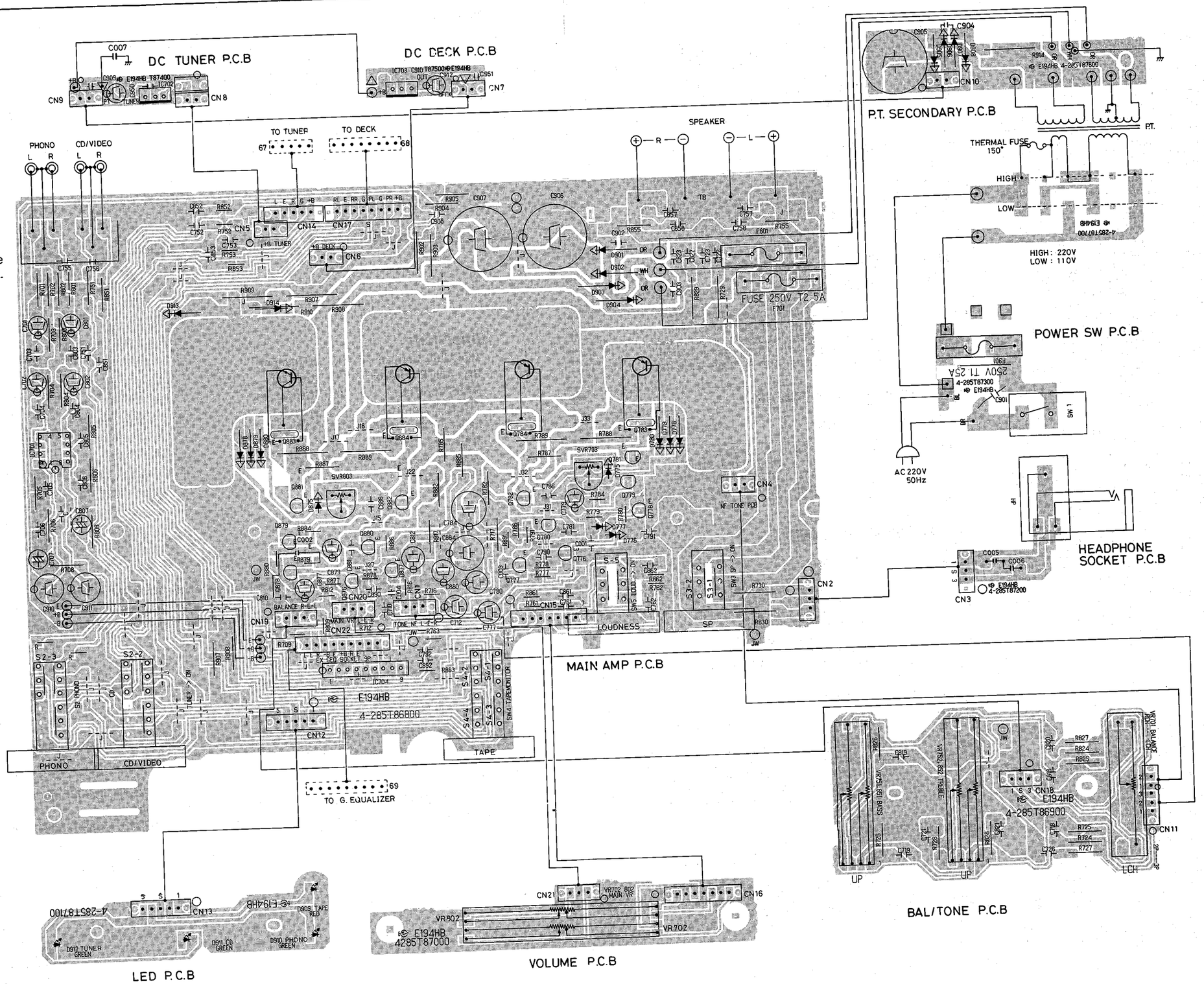
Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

RING DIAGRAM

ote: For checking or repairing the
it without external equalizer, follow-
g connection must be made.





PARTS LIST

Ref. No.	Part No.	Description
R785	⚠ RF/+4820JSFPR	FP-CARBON S 82 J 1/4W R25
R786	RC/+6470JT+++	CARBON T 47 OHM J 1/6W
R787	⚠ RF/+4471JSFPR	FP-CARBON S 470 J 1/4WR25
R788	⚠ RM++1R47JS+++	METAL S 0.47 OHM J 1W
R789	⚠ RM++1R47JS+++	METAL S 0.47 OHM J 1W
R791	RC/+6223JT+++	CARBON T 22K OHM J 1/6W
R801	RC/+4152JT++R	CARBON T 1.5KOHM J1/4WR25
R802	RC/+4104JT++R	CARBON T 100KOHM J1/4WR25
R803	RC/+4274JT++R	CARBON T 270KOHM J1/4WR25
R804	RC/+4331JT++R	CARBON T 330 OHM J1/4WR25
R805	RC/+4274JT++R	CARBON T 270KOHM J1/4WR25
R806	RC/+4153JT++R	CARBON T 15K OHM J1/4WR25
R808	RC/+4681JT++R	CARBON T 680 OHM J1/4WR25
R809	RC/+6332JT+++	CARBON T 3.3K OHM J 1/6W
R812	RC/+6102JT+++	CARBON T 1K OHM J 1/6W
R816	RC/+6823JT+++	CARBON T 82K OHM J 1/6W
R817	RC/+4392JT++R	CARBON T 3.9KOHM J1/4WR25
R829	RF/+25R6JSFP+	FP-CARBON S 5.6 J 1/2W
R830	RF/+2331JSFP+	FP-CARBON S 330 J 1/2W
R851	RC/+6102JT+++	CARBON T 1K OHM J 1/6W
R852	RC/+6102JT+++	CARBON T 1K OHM J 1/6W
R853	RC/+6102JT+++	CARBON T 1K OHM J 1/6W
R855	RC/+4100JT++R	CARBON T 10 OHM J1/4WR25
R860	RC/+6102JT+++	CARBON T 1K OHM J 1/6W
or	RC/+6333JT+++	CARBON T 33K OHM J 1/6W
R861	RC/+6562JT+++	CARBON T 5.6K OHM J 1/6W
R863	RC/+6473JT+++	CARBON T 47K OHM J 1/6W
R877	RC/+6563JT+++	CARBON T 56K OHM J 1/6W
R878	RC/+6152JT+++	CARBON T 1.5K OHM J 1/6W
R879	RC/+6561JT+++	CARBON T 560 OHM J 1/6W
R880	RC/+6102JT+++	CARBON T 1K OHM J 1/6W
R882	RC/+4563JT++R	CARBON T 56K OHM J1/4WR25
R884	RC/+6151JT+++	CARBON T 150 OHM J 1/6W
R885	⚠ RF/+4820JSFPR	FP-CARBON S 82 J 1/4W R25
R886	RC/+6470JT+++	CARBON T 47 OHM J 1/6W
R887	⚠ RF/+4471JSFPR	FP-CARBON S 470 J 1/4WR25
R888	⚠ RM++1R47JS+++	METAL S 0.47 OHM J 1W
R889	⚠ RM++1R47JS+++	METAL S 0.47 OHM J 1W
R891	RC/+6223JT+++	CARBON T 22K OHM J 1/6W
R902	RF/+2182JSFP+	FP-CARBON S 1.8K J 1/2W
R903	RF/+2182JSFP+	FP-CARBON S 1.8K J 1/2W
R904	RC/+4222JT++R	CARBON T 2.2KOHM J1/4WR25
R905	RC/+4222JT++R	CARBON T 2.2KOHM J1/4WR25
R907	RC/+4681JT++R	CARBON T 680 OHM J1/4WR25
or	RM++1221JP+++	METAL P 220 OHM J 1W
R908	RC/+4122JT++R	CARBON T 1.2KOHM J1/4WR25
or	RM++1221JP+++	METAL P 220 OHM J 1W
R909	RM++1271JP+++	METAL P 270 OHM J 1W
R910	RM++1271JP+++	METAL P 270 OHM J 1W

BAL/TONE PCB ASSY

Ref. No.	Part No.	Description
51	141-4-285T-86900	P.C BOARD ASSY, BAL/TONE
VR701	4-220T-26073	VARIABLE RESISTOR, 250KW, BALANCE
VR751,851	4-220T-07674	VARIABLE RESISTOR, 100KC, BASS
VR752,852	4-220T-07674	VARIABLE RESISTOR, 100KC, TREBLE
C718	CB+25223KRXRF	BC CON 0.022MF 25V K R XR
C719	CB+25104KRXRF	BC CON 0.1MF 25V K R XR
C720	CB+25272KRXRF	BC CON 0.0027MF 25V K R XR
C721	CB+25153KRXRF	BC CON 0.015MF 25V K R XR
C818	CB+25223KRXRF	BC CON 0.022MF 25V K R XR
C819	CB+25104KRXRF	BC CON 0.1MF 25V K R XR
C820	CB+25272KRXRF	BC CON 0.0027MF 25V K R XR
C821	CB+25153KRXRF	BC CON 0.015MF 25V K R XR
R724	RC/+4223JT++R	CARBON T 22K OHM J1/4WR25
R725	RC/+4224JT++R	CARBON T 220KOHM J1/4WR25
R726	RC/+4472JT++R	CARBON T 4.7KOHM J1/4WR25
R727	RC/+4392JT++R	CARBON T 3.9KOHM J1/4WR25
R728	RC/+4152JT++R	CARBON T 1.5KOHM J1/4WR25
R824	RC/+4223JT++R	CARBON T 22K OHM J1/4WR25
R825	RC/+4224JT++R	CARBON T 220KOHM J1/4WR25
R826	RC/+4472JT++R	CARBON T 4.7KOHM J1/4WR25
R827	RC/+4392JT++R	CARBON T 3.9KOHM J1/4WR25
R828	RC/+4152JT++R	CARBON T 1.5KOHM J1/4WR25

VOLUME PCB ASSY

Ref. No.	Part No.	Description
52	141-4-285T-87000	P.C BOARD ASSY, VOLUME
VR702,802	4-220T-20200	VARIABLE RESISTOR, VOLUME, 100KB

LED PCB ASSY

Ref. No.	Part No.	Description
53	141-4-285T-87100	P.C BOARD ASSY, LED
D909	SLSLP138CB5RE	LED SLP138C-51 B RE
D910	SLSLP238FB5PG	LED SLP238F-51P B GR
D911	SLSLP238FB5PG	LED SLP238F-51P B GR
D912	SLSLP238FB5PG	LED SLP238F-51P B GR

HEADPHONE SOCKET PCB ASSY

Ref. No.	Part No.	Description
54	141-4-285T-87200	P.C BOARD ASSY, HEADPHONE SOCKET
	4-240T-63071	SOCKET, HEADPHONE
C5	CC+50221KRYBF	CERAMIC 220PF 50V K R YB
C6	CC+50221KRYBF	CERAMIC 220PF 50V K R YB

POWER SWITCH PCB ASSY

Ref. No.	Part No.	Description
55	141-4-285T-87300	P.C BOARD ASSY, POWER SWITCH
	141-2-381T-04202	BRACKET, FUSE
	4-237T-00100	TERMINAL BOARD
	141-2-382T-18900	TERMINAL
S1	⚠ 4-238T-70380	SWITCH, POWER
C901	⚠ 4-223T-12100	CAPACITOR, 0.01MF, 400V
or	⚠ 4-223T-12280	CAPACITOR, 0.01MF, CSA

DC TUNER PCB ASSY

Ref. No.	Part No.	Description
56	141-4-285T-87400	P.C BOARD ASSY, DC TUNER
IC702	⚠ SINJM7812A+++	IC NJM7812A SIP03
C7	CC+50103ZD++S	CERAMIC 0.01MF 50V Z D
C909	CE+16106MR++F	ELECT 10MF 16V M R
C950	CC+50223ZRZFF	CERAMIC 0.022MF 50V Z R ZF

DC DECK PCB ASSY

Ref. No.	Part No.	Description
57	141-4-285T-87500	P.C BOARD ASSY, DC DECK
IC703	⚠ SINJM7812A+++	IC NJM7812A SIP03
C912	CE+16106MR++F	ELECT 10MF 16V M R
C951	CC+50223ZRZFF	CERAMIC 0.022MF 50V Z R ZF

PARTS LIST

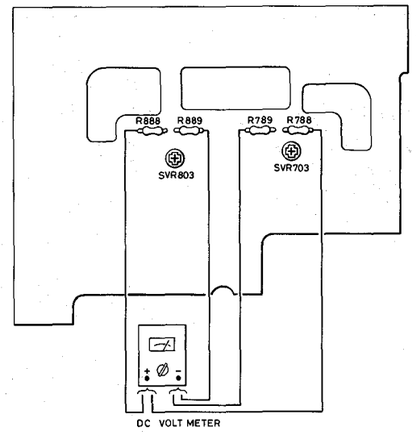
P.T. SECONDARY PCB ASSY

Ref. No.	Part No.	Description
58	141-4-285T-87600	P.C BOARD ASSY, P.T. SECONDARY
D905	⚠ SDDSF10+C+++T	DIODE DSF10 C T
D906	⚠ SDDSF10+C+++T	DIODE DSF10 C T
D907	⚠ SDDSF10+C+++T	DIODE DSF10 C T
D908	⚠ SDDSF10+C+++T	DIODE DSF10 C T
C904	CF+50104JR++F	METAL POLY 0.1MF 50V J R
C905	4-223T-17500	CAPACITOR 1000MF 35V
R914	⚠ RM++1R33JS+++	METAL S 0.33 OHM J 1W

BIAS CURRENT ADJUSTMENT

CONDITIONS

VOLUME Control	:	"O,, (Minimum)
BALANCE Control	:	"O,, (Center)
BASS Control	:	"O,, (Center)
TREBLE Control	:	"O,, (Center)
FUNCTION Switch	:	"CD/VIDEO,,
SPEAKER Switch	:	"OFF,,
MONITOR Switch	:	"SOURCE,,
Output Load	:	No Load



Adjust the SVR 701 and SVR 801 after more than 3 minutes when the power switch is turned on.
L – Channel: SVR703 for DC0.5mV±0.1mV reading between the both leads of R788 and R789.
R – Channel: SVR803 for DC0.5mV±0.1mV reading between the both leads of R888 and R889.

FOR AC 110V USE

This unit is manufactured at the factory for use with AC 220V. If you need to change this unit from AC 220V use to AC 110V use, following changes should be made.

1. Remount the primary terminals of the power transformer (4-320T-15800) mounting on the 220V position of the PC Board (4-285T-87700) to 110V position as shown in wiring diagram.
2. Change the fuse F901 from 4-234T-10585 (250V T1.25) to 4-234T-10589 (250V T2.5A).

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